



A series of distinct NE-SW ridges occupy the floor of Lake Ontario's deepest basin, the Rochester Basin, seen in the bottom inset. The ridges, having a relief of 15-25 meters and a natural spacing of 250-1000 meters, are remarkable in their linear aspect and uniform width. Most have relatively flat tops with steep side slopes, some of which are steeper to the northwest, others to the southeast, and some are symmetrical in cross-profile.

In the top inset a small equidimensional circular depression 1000 meters in diameter, with a continuous encircling rim, coincides with the feature referred to as Charity Shoal on nautical charts. An elongated ridge extends southwest from the feature, resembling the tail of a crag-and-tail feature common to some drumlin fields. The basin is slightly deeper than 18 meters and the rim rises to depths of 2-6 meters. We believe this feature to be a simple impact crater.

A publication will be coming out soon about the Charity Shoal in the Journal of Great Lakes Research titled "Small Rimmed Depression in Lake Ontario: An Impact Crater?"

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